

ATTACHMENT B

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Table 2-1 Accepted Priority I and II Interim Response Activities

	Carpet Cleaning	Hard Floor Cleaning	Horizontal Hard Surface	Cleaning of Heating System	Replacement of Furnace Filter	Landscaping	Doormat	Refused Services	Total Parcels Eligible for Mitigation Options
Priority I Parcels	78	65	63	79	73	86	19	16	141
Priority II Parcels	101	95	95	102	102	38	62	133	532

Table 3-1 1973 NPDES Permit Special Conditions Outfalls

Outfall No. (1973 Permit)	Description (1973 Permit)	Flow (MGD) (1973 Permit)	Station	Side of River
1	WWTP	46	128+00	NE
2	54" CWS	6	Lingle	NE
3	60" CWS	27.4	81+00	NE
4	84" CWS	3.5	Lingle	NE
5	Asby Ditch	1	30+00	SW
6	24" WSS	1	61+50	SW
11	E fl-60"	42.8	46+00	NE
12	H fl-96"	30	61+00	SW
13	12"ST-47 Bldg	0.144	27+00	NE
14	8"CI-47 Bldg	0.432	29+00	NE
15	8"ST-47 Bldg	0.27	31+00	NE

Table 3-2 Additional Outfalls Observed in Aerial Photographs

Station	Side of River
20+00	NE
24+00	NE
34+05	NE
36+00	NE
42+00	NE
58+00	NE
58+00	SW
71+00	NE
106+00	SW

Table 3-3 Products Circa 1926-1928

The Dow Chemical Company

acetic acid	Dowmetal™	orthodichlorobenzene
acetic anhydride	Epsom salt (magnesium sulfate)	orthophenylphenol
acetylene tetrabromide	ethyl chloride	paradibromobenzene
acetylsalicylic acid	ethyl monochloracetate	paradichlorobenzene
ammonium bromide	ethylene bromide	paraphenetidin
ammonium salicylate	ethylene chlorbromide	paraphenylphenol
aniline hydrochloride	ethylene chlorhydrin	pentachloroethane
aniline oil	ferric chloride	phenol
anthralic acid	ferrous chloride	phenol salicylate
barium bromate	hexachloroethane	phenyl acetate
Bordo mixtures	hydrobromic acid	phenyl ethyl alcohol
bromoform	lead arsenate	potassium bromate
cadmium bromate	lime sulfur	potassium bromide
calcium arsenate	lithium bromide	propylene chloride
calcium bromide	lithium salicylate	purified bromine
calcium chloride	magnesium arsenate	salicylaldehyde
camphor monobrominated	magnesium bromate	sodium bromate
carbolic acid	magnesium bromide	sodium bromide
carbon bisulfide	magnesium chloride	sodium chloride
carbon tetrachloride	magnesium oxychloride	sodium salicylate
caustic soda	magnesium salicylate	sodium sulfide
chloracetyl chloride	methyl anthranilate	strontium bromide
chlorine	methyl bromide	strontium salicylate
chloroform	methyl salicylate	sulfur chloride
Ciba dyes (7 colors)	methylene chloride	sulfur monochloride
cinchophen	Midland Vat Blue dyes (3 types)	synthetic indigo
coumarin	mining salts	tetrachloroethane
dichloromethane	monobromobenzene	tetrachloroethylene
dichloroacetic acid	monochloroacetic acid	tribromophenol
diethylaniline	monochlorobenzene	trichloroacetic acid
dimethylaniline	nicotine sulfate	
diphenyloxide	orthocresotinic acid	

Source: Midland Sun (1926) and The Dow Chemical Company Product Catalog (1928)

Table 3-4 New Product Introductions during the 1940s, 1950s, and 1960s

The Dow Chemical Company

<i>Decade</i>	<i>Product</i>	<i>Production Years (where available)</i>	<i>Source</i>
1940s	1,1-dichloroethane	1945-1980	A
	1,2,4,5-tetrachlorobenzene	1945-1980	A
	2,4,6-trichlorophenol		
	2-(2,4-dichlorophenoxy)acetic acid (2-4-D; Dowspray™ 66; Esteron™ 44; Esteron™ 99; Esteron™ Brush Killer)	1945-1983	A
	2-chloropropionic acid	1949-1984	A
	4-chloro-2-phenyl-phenol (Dowicide™ 32)	1948-1972	A
	acrylonitrile		A
	alpha-methylstyrene		A
	antipyrene		A
	bromoform	1944-1983	A
	demethylaminobenzene		A
	dicyclopentadiene		A
	diethylbenzene	1946-?	A
	diisopropanolamine	1944-2000	A
	dinitro-o-sec-butylphenol (Dinoseb™, Premerge™, DN289™)		A
	methylchloroacetate	1947-2000	A
	propylene glycol		A
	sodium trichloroacetate	1948-1977	A
	toluene		A
	xylydene		A
1950s	2,4,5-T (Esteron™ 245)	1950-?	A
	4-chloro-2-cyclopentyl-phenol (Dowicide™ 9)	1965-1982	A
	1,2-dibromo-3-chloropropane (Fumazone™)	1957-1975	A
	1-methoxy-2-propanol (Dowanol™ PM)	1958-1990	A
	2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropanoate (Erbon™)	1954-1979	A
	2,2-dichloropropionic acid (Dalapon™)	1954-?	A
	2-chloro-1-morpholin-4-yl-ethanone (Morpholine™)	1950-?	A
	2-ethoxyethanol (Dowanol™ EE)	1957-1988	A
	2-methoxyethanol (Dowanol™ EM)	1957-1988	A
	acrylamide	1954-1971	A
	acrylic acid		
	bromobenzene	1950-1970	A
	bromomethylbenzene	1952-1976	A
	dimethoxy-sulfanylidene-(2,4,5- trichlor-phenoxy-phosphorane (Ectoral™, Trolene™, Ronnel™, Korlan™, Nankor™, Viozene™)	1957-1977	A
	Kuron™ herbicide containing 2,4,5-trichlorophenoxypropionic acid (also known as Silvex™)	1953-1980	A
	monoisopropanolamine	1953-2000	A
	o,o-dimethyl-o-(2,4,5-trichlorophenyl) phosphorothioate (Dowpon™, Ronnel™, Ruelene™)	1951-?	A

Table 3-4 Continued New Product Introductions during the 1940s, 1950s, and 1960s

The Dow Chemical Company

<i>Decade</i>	<i>Product</i>	<i>Production Years (where available)</i>	<i>Source</i>
1960s	o-chlorophenol	1950-1965	A
	parachlorophenol		B
	p-dibromobenzene	1950-1968	A
	polyacrylamide (Separan™), SE-651	1950s-? 1958-1980	A A
	styrene/butadiene latex	1950s-?	A
	Styrofoam™ brand plastic foam		B
	tetrachlorobenzene		B
	tetraethylene pentamine	1951-1966	A
	tetrasodium 2-[2-bis-(carboxylatomethyl)amon]ethyl- (carboxylatomethyl)amino]acetate (Versene™)	Pilot plant; 1951	A
	trichlorophenol		B
	Vidden™ (a mixture of dichloroprpenes and dichloropropanes)	1959-1983	A
	(17-acetyl-6-chloro-3-hydroxy-10,10-dimethyl- 1,2,3,8,9,11,12,14,15,16- decahydrocydopenta[a]phenanthren-17-yl)acetate (Verton™)	1962-1979	A
	(4-dimethylamino-3,5-dimethyl-phenyl methylaminoformate (Zectran™)	Pilot scale; 1961-1975	A
	2,3,5-trichloro-1H-pyridin-4-one (Daxtron™)	1965-1968	A
	2,4,5-T and 2,4-D mixture	1962-1970	A
	2-butoxyethanol (Dowanol™ EB)	1960-1988	A
	2-phenoxyethanol (Dowanol™ EP and Dowanol™ EPH)	1960-1967	A
	chlorypyrifos o,o-diethyl o-(2,4,6-trichlor-2-pyridyl)l (Dursban™)	Pilot scale; 1965	A
	decabromodiphenyl oxide	1969-1986	A
	dimethylamine salt of 2-methyl-chlorophenoxyacetic acid	1963-1975	A
	Dowicil™ TBS	1962-1971	A
	l-isobutoxy-2-propanol (Dowanol™ PIB)	1962-1981	A
	methylene bromide	1960-1978	A
	o-2,4-dichlorophenyl-o-methyl isopropylphosphoramidothioate (Zytron™)	1960-?	A
	o-sec-butylphenol	1964-1979	A
	pentachloropyridine	1966-?	A
	pentachlorophenol (glazed, prilled form)	1965-?	A
	t-butylsalol	1966-1970	A
	tert-butyl-salol (TBS, Tausol™)	1963-1965	A
	tricyclohexylstannane hydrate	1967-1979	A
	triisopropanolamine	1966-2000	A
	Zetabon™ (coils of metal coated with ethylene copolymer plastic)	1965-?	A

Sources: (A) Birch, A. (2006) (B) ATS (2006)

Table 4-1
Contaminants Found in RGIS Sumps, July, 1994
(Source: MDEQ (1994))

chlorobenzene	2,4,5-trichlorophenol
tetrachlorobenzene	2,4,6-trichlorophenol
trichloroethene	2-chlorophenol
xylene	3-methylphenol (meta cresol)
1,2-dichlorobenzene	4-methylphenol (para cresol)
1,3-dichlorobenzene	2,4-dichlorophenoxyacetic acid
1,4-dichlorobenzene	phenol
2,4-dichlorophenol	pentachlorophenol
2,6-dichlorophenol	2,3,7,8-tetrachlorodibenzofuran
hexachlorobutadiene	(TCDF)
2,3,4,6-tetrachlorophenol	PCDF isomers
1,2,4-trichlorobenzene	HCDF isomers